Solutions for Demanding Applications

VARTECH
SYSTEMS INC.

Industrial CRT and Flat Panel Displays

VT420D

Large Screen Desktop

User's Guide

Read these instructions completely before attempting to operate your new Color Display

USER MANUAL

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※ Please read this user's manual cautiously and completely before operating this monitor.

Important Safety Instructions

Before using the monitor, please read this user's manual thoroughly to help protect against damage your own and other people's property from potential damage and ensure your own and other people personal safety.

- Be sure to observe the following instructions with understood meaning below.
- For your safety, be sure to observe the safety notice in this manual.
- The installation or adjustment, please follow this manual instructions or refer to all servicing to qualified service personnel.

Safety Precautions

If smoke or peculiar smell comes from the monitor, remove the power plug from the outlet immediately .

If the monitor is still used in this condition, it may cause a fire or an electrical shock.

Make sure that the smoke or smell stopped, then contact VarTech for inspection.

If there isn't picture, remove the power plug from the outlet immediately .

If the monitor is still used in this condition, it may cause a fire or an electrical shock.

Contact VarTech for inspection .

If water is spilled or objects are dropped into the monitor, remove the power plug from the outlet immediately.

If the monitor is still used in this condition, it may cause a fire or an electrical shock.

Contact VarTech for inspection.

If the monitor is dropped or the cabinet is damaged, remove the power plug from the outlet immediately .

If the monitor is still used in this condition, if may cause a fire or an electrical shock.

Contact VarTech for inspection.

To turn off the power of the monitor, press"O" on the main power switch at back cover.

The power standby/on indicator goes off and the set cannot to be turned on/ off by using the POWER button on the remote control. (To turn on/off the monitor by the remote control, press the main power switch again and light the power standby/on indicator.)

- When turning off the monitor by pressing the POWER button on the remote control, the main power of the monitor is not turned off completely.
- To disconnect the monitor completely from power supply, remove the power plug from the outlet.

If the power cord or plug is damaged or becomes hot, turn off the main power switch of the monitor, make sure the power plug has cooled down and remove the power plug from the outlet .

If the monitor is still used in this condition, it may cause a fire or an electrical shock.

Installation

Don't install in the high-temperature environment.

If the monitor used in high-temperature or in direct sunlight, it may cause the case or other parts to be distorted, damaged, overheating or an electric shock.

Don't install in the high-humidity environment such as a bathroom or close to a humidifier.

This may cause overheating or an electric shock.

Don't install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

This may cause a fire or an electric shock.

Don't overload outlets or cables beyond electricity capacity.

Don't use extension cords, it may cause a fire or an electric shock.

Don't insert the power plug into an outlet other than 100~240V AC.

This may cause a fire or an electric shock.

- Don’t use a damaged power plug or worn outlet.
- Don’t insert the improper power plug ,it may cause a fire and an electric shock.

Don't place the monitor on an unstable shelf or desk, such as a shaky table.

The monitor may fall down and cause injury damage. Please install on a horizontal, stable surface.

Don't place objects on the monitor.

- If the monitor is covered under the newspaper, tablecloth or curtain, the monitor vent could be clogged, and it may make the monitor overheating and cause the fire.
- If metal or liquid (putting the vase, glass or the cosmetics) get into the monitor, it may cause a fire or an electrical shock.
- If you put the heavy object on the monitor, it may fall down and cause the injury
- Please Keep 10cm minimum distance between the monitor and the wall for sufficient ventilation.

Don't move the monitor when it’s connecting power cord and cables.

- When moving the monitor, make sure to take off the power plug and cables from the outlet or sync source. If not, a fire and an electric shock may occur. If the power plug is damaged, injury may result from the monitor fall down.
- When unpacking or carrying the monitor, at least 2 people are needed. Make sure the monitor is upright.
- When moving or putting the monitor, avoid to face the monitor up or down.
- Handle the monitor so as not to jolt the monitor.

Use

When getting problem at installation, please contact your distributor to install for you. Don’t repair or open the monitor by yourself.

It may cause a fire or an electric shock. The monitor repair, please ask your distributor.

Protect and correctly use the power cord/ plug.

- Don't heavy press the power cord/ plug, don't step on the power cord/plug.
- Connect the power cord and the monitor, before insert the power plug into the wall outlet.
- Don't operate the monitor with a damaged power cord, otherwise the monitor will be damaged.

Using the extension line precautions

If use the extension line, the current power of the voltage should be equal to the power consumption of the monitor at least, if the power of the voltage is smaller than the monitor, it will cause the overheated phenomenon.

If there is thunder or lightning, don’t touch the monitor or the power plug.

This may cause an electric shock.

When remove the power plug from outlet on wall, don't revolve the power cord.

This may cause the power cord damaged. When take off the power plug, please hold the plug, don’t revolve.

Don’t sprinkle any kind of liquid on the monitor.

- If the monitor is sprinkled by any kind of liquid, please be sure to take off the power plug and ask a qualified service personnel to check the monitor.
- If the monitor’s surface is touched be water, please clean it with a dry and soft cloth immediately.
- Don’t sprinkle volatile liquid on the monitor such as insecticide.
- If the liquid enter the monitor, it may cause the electrical failure.

Don’t insert or take off the power plug with wet hands.

This may cause an electric shock.

If the monitor isn’t in use for a long time, for safety, please take off the power plug.

This may cause breakdown, or it may cause a fire.

If the monitor isn’t in use for a long time, take off the power plug and store it in the proper package. The original carton and packing should be used, if possible.

Don’t compress on the monitor panel.

This may cause personnel injury or panel damage and break-down.

Don't push or shake the monitor.

This may cause breakdown and the injury.

- If the glass of the monitor panel is broken, liquid crystals may transude. Please don't touch the liquid crystals.
- If liquid crystals get into your eyes or touch your skin, wash with the clean water and go to a doctor immediately.

This product contains, including lead (it cause birth defects or other reproductive harm.)

After handing, please wash hands.

Precautions for the remote control batteries..

- Please only use the specified battery type CR2032.
- Please be sure to insert batteries by matching the + and—.
- Don’t recharge, heat, disassemble, short or throw batteries into a fire.
- Don’t mix a new battery with a used one.
- Don’t mix different types of batteries together (only use the specified type). Or, it may cause burn and injury.

Clean

If dust has collected on the power plug, removed the plug from the outlet and clean off the dust.

The dust may cause a fire due to reduced insulation of the plug.

Take off the power plug before cleaning.

If not, it may cause an electric shock. Don't revolve the power cord and the plug from the outlet.
Or, it may cause electric shock.

Cleaning the surface of the monitor.

- When the surface of the monitor is polluted, please wipe the surface with the cotton or clean cloth lightly.
- If pollution is not easy to clean out, can use the cloth with 50% of the alcohol .
- Please notice carefully not to alcohol enter the monitor, it may cause electrical failures.

Warning For Use

On using

- The monitor may produced overheat phenomenon during operation. Please be careful.
- In case of the moving of long distance, please wrap the monitor with blanket to avoid damages. Please be careful not to bump to the monitor.
- Don't expose in the rubber or vinyl for a long time . It will damage the coating.

Exemptions

- This product isn't liable for any damage by natural disaster (such as earthquake, thunder, etc), fire, acts by third parties, accidents, owner's intentional misuse and fault, or uses in other improper conditions.
- This product isn't liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of this product.
- This product isn't liable for any damage cause by inappropriate operation, or not follows the user manual.
- This product isn't liable for any damage cause by misuse or malfunction through simultaneous use of this product and the connected equipment or software.
- This product isn't liable for any damage cause by neglect of the instructions described about installation.
- This product isn't liable for any damage cause by improper installation.
- This product isn't liable for any damage cause by disassembled, modified or maintained by non-authorized service center or people.

Features

High-resolution HD panel

This monitor supports 1920 x 1080 HDTV format and can display true 16.7M colors, you can enjoy extreme fine pictures.

MVA system less-reflection black TFT LCD panel

MVA system and Black TFT LCD panel offer bright and wide images with clear contrast. Even placed near the windows, the monitor shows bright and clear image with little reflection. The viewing angles of the monitor are as wide as 170° both horizontally and vertically, enough to enjoy clear images at any view angle.

Offer varieties of connection

Video system Input: There are 3 choices of connection	**RGB Input:** There are 2 choices of connection	**Signal delivery**
VIDEO RCA S-VIDEO Mini Din 4 pin COMPONENT Mini Din 8 pin	RGB ANALOG D-Sub 15pin RGB DIGITAL DVI-ID 24pin	RS-232C in D-sub 9pin (Option)

Other functions

- Building the photo sensor inside, the monitor will adjust the brightness according to the surrounding light intensity.
- There are two brightness levels pre-set. Under the bight condition, it will adjust to the bright mode. Under the dim condition, the monitor will adjust to dim mode automatically.

Package Contents

Unpacking

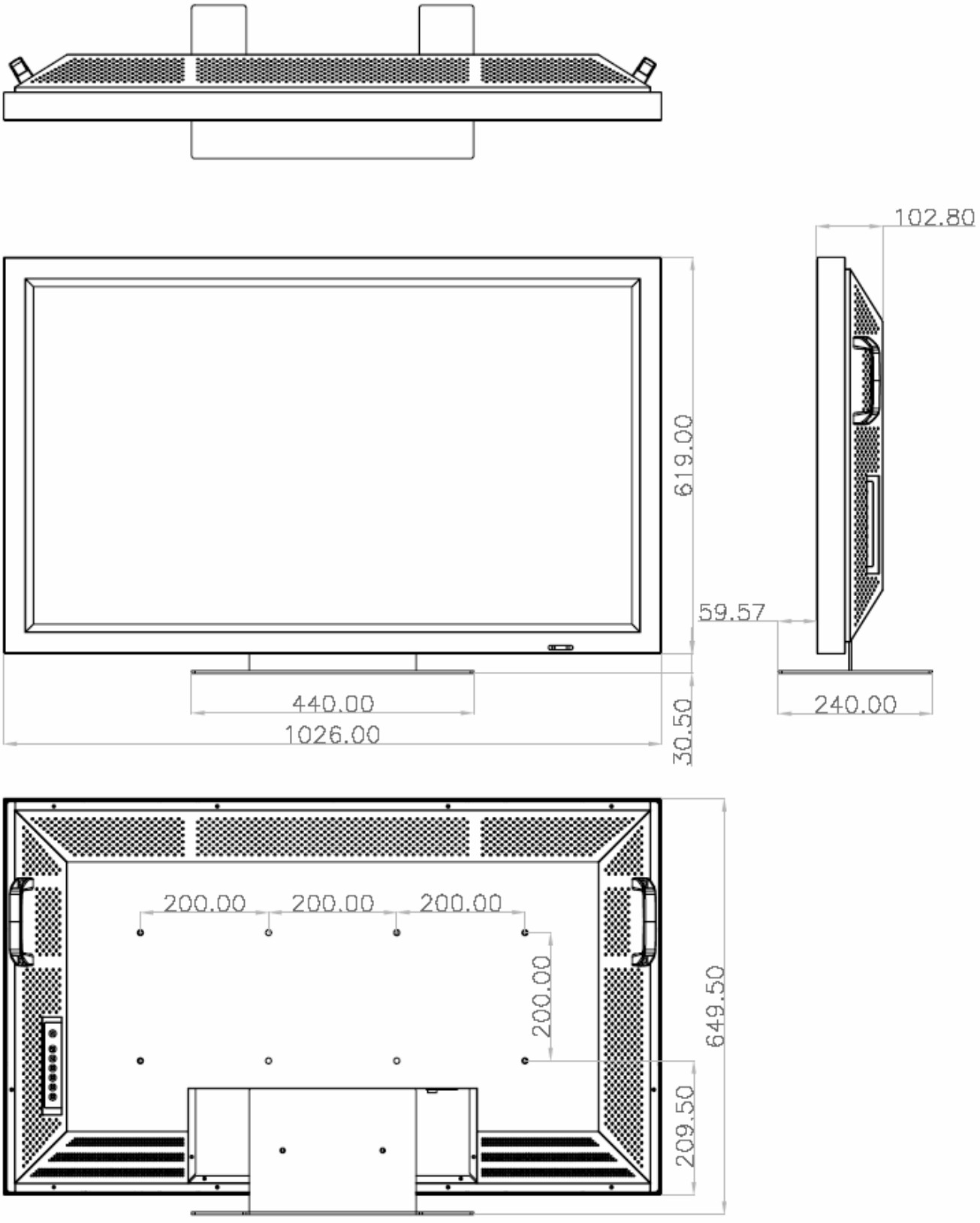
VT420D is packed by the carton box. During transportation, in order to protect the monitor, VT420D is packed by cushions to be safe protect and package.

Before unpacking your monitor, prepare a stable, level, and clean surface near a wall outlet for your monitor. Set the LCD Monitor box in an upright position and open from the top of the box before removing the top cushions.

Accessories

Q'ty	Item	Q'ty	Item
1 set	VT420D	1 pcs	DVI-D 24 pin cable
1 pcs	Power cord	1 pcs	D-SUB 15pin cable
1 pcs	User's manual	1 pcs	S-VIDEO Mini Din 4 pin cable
1 pcs	Remote controller	1 pcs	Component Mini Din 8 pin cable
1 pcs	RCA cable	1 pcs	RS232C D-sub 9pin cable (Option)

Dimension (Front & Back)



Installation

Environmental state

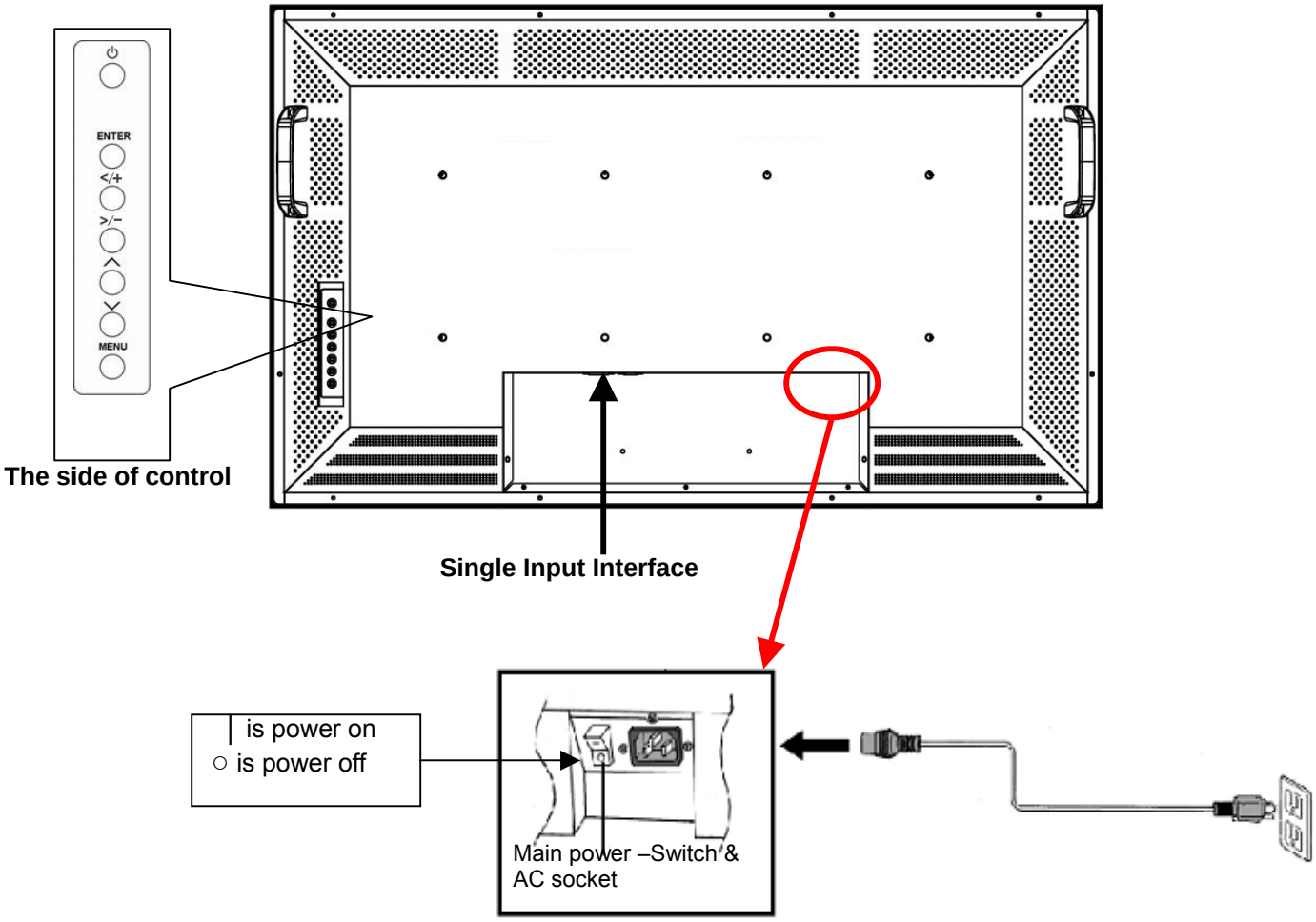
- Operating temperature： 5℃ ~ 40℃ (Fahrenheit : 41℉ ~ 104℉)
- Humidity： max. 85%

Power Input

Power Cord

AC Power cord
This power cord is used to connect the side controls of the LCD monitor and the wall outlet.
Connect the power cord into main power of the monitor, and "|" is power on, "○" is power off.

Input : 100-240V~ 3A 50/60Hz



Power Interface

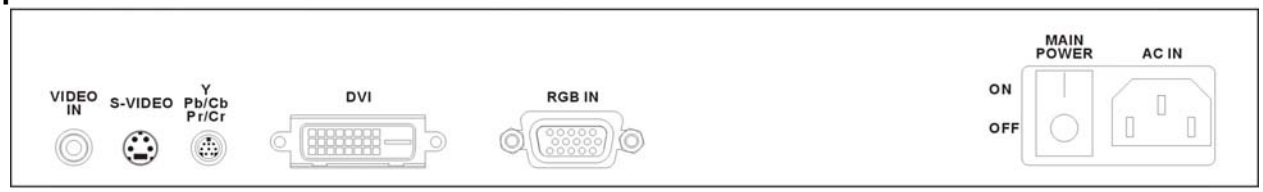
- Main interface- switch & AC socket. Please see the chapter "Power input "
- The side controller of the monitor
- The remote control (RCU)

Connection

④ Video (RCA) input
④ S-Video input
④ Component Y Pb/Pr input
④ DVI (DVI-D) input
④ RGB input
④ RS-232C input (option)

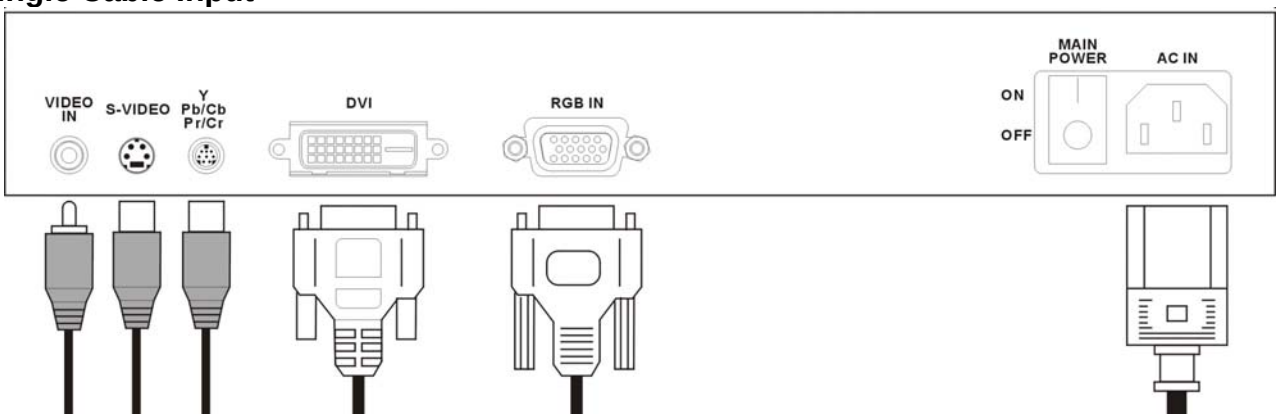
Single Source Input

Input Interface



NO.	Name	Remarks
1	Video-IN input connecter	RCA
2	S-video input connecter	Mini Din 4 pin
3	Y-Pb-Pr (Y-Cb-Cr) inputs	Mini Din 8 pin
4	DVI input connecter	DVI-D 24 pin
5	RGB input connecter	D-Sub 15 pin
6	RS232C-IN input (option)	D-Sub 9 pin

Single Cable Input



The Video Signals Input

You can select Video input form 3 connections below:

Video signals	Connection type	Signal
Video	RCA	NTSC/PAL
S-Video	4 stitches	NTSC/PAL
(Y Pb/Cb Pr/Cr)	8 stitches	NTSC/PAL

⌘ A suitable signal is automatically selected..

RGB inputting

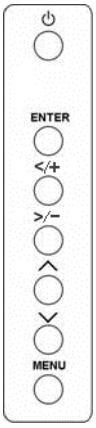
You can select RGB input for 2 connections as below:

RGB signals	Connection type	Signal
RGB Analog VGA	15 pins	RGB Analog
RGB Digital DVI-D	DVI-D 24 pins	RGB Digital

Signal delivery	Connection type	Signal
RS-232C(Option)	9 pin	

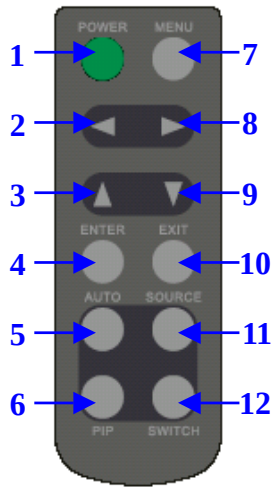
Operating The Monitor

The Side Controller Of The Monitor



No.	Key	Description
1	Power	Power Switch ; Power ON/OFF
2	**ENTER**	Activate selection
3	〈 / +	Menu right / Value increasing
4	〉/ -	Menu left / Value decreasing
5	∧	Menu down
6	∨	Menu up
7	**MENU**	Enter OSD menu / Exit menu or select

The Remote Control (RCU) Instructions



No.	Key	Description
1	POWER	Power ON / OFF
2	⇧	Menu left
3	△	Menu up
4	ENTER	Enter
5	AUTO	Adjust clock, phase, H & V position automatically
6	PIP	Picture in picture
7	MENU	OSD menu
8	⇦	Menu right
9	▽	Menu down
10	EXIT	Exit and one level up
11	SOURCE	Input source selection
12	SWITCH	PIP picture switch

λ **OSD Lock/Unlock Control**

Use control push buttons at side

Lock: Press (⇦/+) and (▽) at the same time and OSD will be locked.

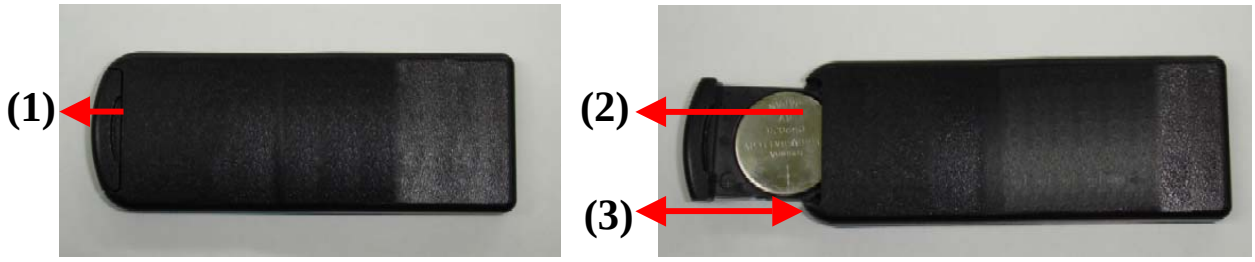
Unlock: Press (⇦/+) and (▽) at the same time again and OSD will be unlocked.

Use remote controller

Lock: Press Enter, Enter, Exit, Exit, Enter and Exit on the controller by sequence and OSD will be locked.

Unlock: Press Enter, Enter, Exit, Exit, Enter and Exit on the controller by sequence again and OSD will be unlocked.

Change The RCU Battery (RCU option)



i. Push down as picture (1) and pull the back cover.
ii. Replace with the new batteries as picture (2), 1 piece Lithium battery(CR2032) make sure the polarity of batteries are correct.
iii. Place back cover and slide it is as picture (3).
iv. Used batteries needed to follow the city rule to be discarded.
v. Avoid keeping used, old batteries inside the remote control, causing leakage of internal liquid resulting metal rust or fatal damage to the remote control hand unit.
vi. Battery used according to the instruction

.

CAUTION

- Risk of explosion if batty is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

About the remote controllers

- Please don’t drop, shake or bump.
- Please don’t place on wet materials.
- Please don't dismantle.
- Please don’t place in locations exposed to high-temperature or high-humidity levels..

OSD (On Screen Display) Menu Function

Main Menu		Sub-Menu	Description	Setting
	DISPLAY	Brightness	Adjust the brightness of the screen	0,100
		Contrast	Adjust the contrast of the screen	0,100
		Zoom	Magnify the picture of screen	In,Out
		Zoom Horizontal Pan	Select the left/right picture to magnify	Left,Right
		PIP Mode	Adjust the PIP mode	Off,Singe,PAP
		PIP Size	Adjust the PIP size	Small,Med,Large
		Scaling	Select the picture ratio.	1:1,Fill,Aspect,panor
		Auto Adjust	Auto adjustment	Select
	COLOR			
		Color Temperature	Select the color temperature setting	User,3200K,6500K, 7500K,9300K
		Balance	Adjust the balance of the OSD menu	-15,+15
		Horizontal	Adjust the OSD menu H-position	0,255

	Language	Language	Language setting	English
	Default setting	Factory reset	Reset to the factory default setting	Yes, No
		Set display address	Select monitor ID address(optional)	0,255
		Light Sensor	Select the light sensor setting	On, Off
		Light sensor Value	Adjust the light sensor value	0,100
	RCU ▽	Input signal selection	VGA	
			DVI	
			Composite	
			S-Video	
			Component	

④ **(IVP) means selection is working on Video mode.**
④ **(IGP) means selection is working on VGA mode.**

	RCU	Input signal selection	VGA	
			DVI	
			Composite	
			S-Video	
			Component	

④ **(IVP) means selection is working on Video mode.**
④ **(IGP) means selection is working on VGA mode.**

④ OSD Operating

Structure of OSD Menus

λ Main Menu

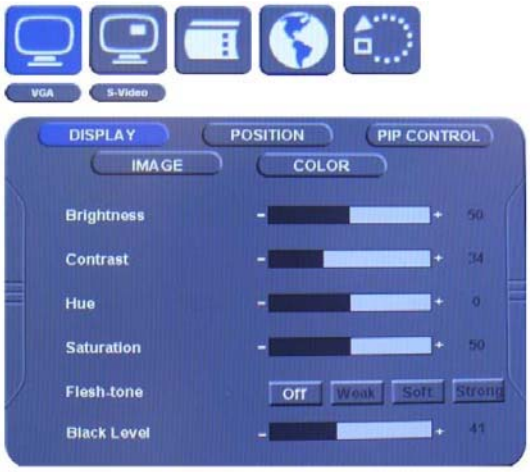
On side of controller:

Press "**MENU**" to enter Main Menu
Press"⇦**/+**" or "⇧**/-**" to select Main Menu ex (Picture setting, Language, Original Default Setting)

On RCU:

Press "**MENU**" to enter Main Menu
Press"⇦" or "⇧" to select Main Menu ex (Picture setting, Language, Original Default Setting).

λ Display Setting-



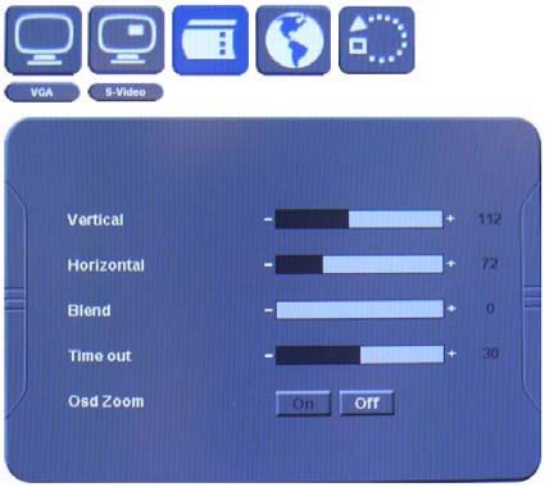
On side of controller:

1. Press "**MENU**" ->" **ENTER**" to enter "**DISPLAY**" item.
2. Press "▽" to select sub-item(Brightness, contrast, Hue….),
3. Press "⇦**/+**" or "⇧**/-**" to adjust
4. Press "**ENTER**" again when finished adjusting.
5. Press "**MENU**" to exit the item.

On RCU:

1. Press the "**MENU**" ->" **ENTER**" to enter "**DISPLAY**" item.
2. Press "▽" to enter sub-item(Brightness, contrast, Hue….),
3. Press "⇦" or "⇧" to adjust
4. Press "**ENTER**" when finish adjusting.
5. Press "**EXIT**" to exit the item.

λ Picture Setting



On side of controller:

1. Press "**MENU**" to enter Main Menu.
2. Press "⇦**/+** " 2 times to select picture setting.
3. Press "**Enter**" to enter item.
4. Press "▽" to select sub-item(Vertical, Horizontal, Blend...),
5. Press "⇦**/+**" or "⇧**/-**" to adjust
6. Press "**Enter**" when finish adjusting.
7. Press the "**MENU**" to exit the item.

On RCU:

1. Press the "**MENU**" ->" **ENTER**" to enter picture setting
2. Press"⇦" or "⇧" to select Main Menu.
3. Press the "**ENTER** " to enter item.
4. Press "▽" to enter sub-item(Vertical, Horizontal, Blend…),
5. Press "⇦" or "⇧" to adjust
6. Press "**ENTER**" to exit the item.
7. Press" **EXIT**" to exit the item

λ Language Setting (English only)

On side of controller:

1. Press "**MENU**" to enter Main Menu.
2. Press "⇦**/+** " 3 times and press the "**Enter**" to enter item.
3. Press "▽" to select sub-item(English only),
4. Press "**Enter**" when finish adjusting.
5. Press "**MENU**" to exit the item.

On RCU:

1. Press "**MENU**" ->" **ENTER**" to enter picture setting
2. Press"⇦" or "⇧" to select Main Menu.
3. Press "**ENTER** " to enter item.
4. Press "▽" to enter sub-item(English only),
5. Press "**ENTER**" when finish adjusting.
6. Press" **EXIT**" to exit the item

λ Default Setting

On side of controller:

1. Press "**MENU**" to enter Main Menu.
2. Press "⇦**/+** " 4 times to select original default setting.
3. Press "**Enter**" to enter item.
4. Press "▽" to select sub-item(Factory Reset. Set display …),
5. Press "⇦**/+**" or "⇧**/-**" to adjust
6. Press "**Enter**" when finish adjusting.
7. Press "**MENU**" to exit the item.

On RCU:

1. Press "**MENU**" to enter Main Menu.
2. Press"⇦" or "⇧" to select Main Menu.
3. Press "**ENTER** " to enter item.
4. Press "▽" to enter sub-item(Factory Reset. Set display …),
5. Press "⇦" or "⇧" to adjust
6. Press "**ENTER**" when finish adjusting..
7. Press" **EXIT**" to exit the item

λ Input Signal Selection

On side of controller:

1. Press the "**MENU**" to enter Main Menu.
2. Press "▽" to enter
3. Press "⇦**/+**" or "⇧**/-**" to select single input.
4. Press "**Enter**" when finish adjusting.

On RCU:

1. Press the "**MENU**" to enter Main Menu.
2. Press "▽" to enter
3. Press "⇦**/+**" or "⇧**/-**" to select single input.
4. Press "**Enter**" when finish adjusting.

Default Setting

Item	Default
Power switch	**Off**
Brightness	**80**
Contrast	**50**
Color temp.	**User**
Red	**255**
Green	**255**
Blue	**255**
Language	**English**
Auto Adjust	**On**

Supported Timing

Item	Video Mode		fH (kHz)	fV (Hz)	Dot clock (MHz)	Sync polarity		Horizontal (dot)					Vertical (line)					Analog	Digital (Optional)
						H	V	A	B	C	D	E	O	P	Q	R	S		
1	VESA	VGA 640x480	31.469	59.940	25.175	N	N	800	96	48	640	16	526	2	33	480	11	O	O
2			37.861	72.809	31.500	N	N	832	40	128	640	24	520	3	28	480	9	O	O
3			37.500	75.000	31.500	N	N	840	64	120	640	16	500	3	16	480	1	O	O
4		SVGA 800x600	35.156	56.250	36.000	P	P	1024	72	128	800	24	625	2	22	600	1	O	-
5			37.879	60.317	40.000	P	P	1056	128	88	800	40	628	4	23	600	1	O	O
6			48.077	72.188	50.000	P	P	1040	120	64	800	56	666	6	23	600	37	O	O
7			46.875	75.000	49.500	P	P	1056	80	160	800	16	625	3	21	600	1	O	O
8		XGA 1024x768	48.363	60.004	65.000	N	N	1344	136	160	1024	24	806	6	29	768	3	O	O
9			56.476	70.069	75.000	N	N	1328	136	144	1024	24	806	6	29	768	3	O	O
10			60.023	75.029	78.750	P	P	1312	96	176	1024	16	800	3	28	768	1	O	O
11		SXGA 1152x864	67.500	75.000	108.000	P	P	1600	128	256	1152	64	900	3	32	864	1	O	O
12		SXGA 1280x1024	63.981	60.020	108.000	P	P	1688	112	248	1280	48	1066	3	38	1024	1	O	O
13			79.976	75.025	135.000	P	P	1688	144	248	1280	16	1066	3	38	1024	1	O	-
14	VGA TEXT	720x400	31.469	70.087	28.322	N	P	900	108	45	720	27	449	2	35	400	12	O	O
15	UXGA60	1600x1200	75.00	60.00	162.00			2160	192	304	1600	64	1250	3	46	1200	1	O	
16	Macintosh	640x480	35.000	66.667	30.240	N	N	864	64	96	640	64	525	3	39	480	3	O	
17		832x624	49.725	74.500	57.283	N	N	1152	64	224	832	32	667	3	39	624	1	O	-
18		1024x768	60.150	74.720	80.000	N	N	1330	96	168	1024	42	805	3	31	768	3	O	-
19	720p-50	1280x720	37.50	50.000	74.250			1980	40	220	1280	440	750H	5H	20H	720H	5H	O	-
20	720p-59.9	1280x720	44.96	59.94	74.18			1650	40	220	1280	110	750H	5H	20H	720H	5H	O	-
21	720p-60	1280x720	45.00	60.00	74.25			1650	40	220	1280	110	750H	5H	20H	720H	5H	O	
22	768-60	1360x768	47.72	59.95	84.75			1776	152	176	1360	88	796H	3H	24H	768H	1H	O	
23	1080i-50	1920x1080	28.13	25.00	74.25			2460	44	528	1920	148	562H	2H	5H	540H	15H	O	
24	1080i-59	1920x1080	33.72	29.97	74.18			2200	44	88	1920	148	562H	3H	19H	540H	O	O	
25	1080p-50	1920x1080	62.50	50.00	148.5			2376	66	243	1920	147	1250	1H	160	1080	9H	O	
26	1080p-50	1920x1080	56.25	50.00	148.5			2460	44	148	1920	528	1125	5H	36H	1080	4H	O	-
27	1080p-59	1920x1080	67.43	59.94	148.35			2200	44	148	1920	88	1125	5H	36H	1080	4H	O	
29	1080p-59	1920x1080	67.50	60.00	148.5			2200	44	148	1920	88	1125	5H	36H	1080	4H	O	

Item	Video Mode		fH (kHz)	fV (Hz)	Dot clock (MHz)	
1	NTSC	NTSC 358-443	15.743	59.94	16.521	
2	PAL	PAL SECAM	15.625	50.00	16.406	

Specification

Item		Specification	Unit
LCD panel	Pixel Number	1920 x R.G.B. x 1080	pixel
	Pixel Arrangement	RGB Vertical Stripe	-
	Display Color	16.7M	color
	Trans-missive Mode	Normally Black	-
	Viewing Angle (H / V)	176 / 176	degree
	Brightness	500 (typ.)	cd/m2
	Contrast Ratio	1000(typ.)	-
	Response Time	8 (Gray to Gray, typ.)	msec
Graphic	Separate Sync.	LVDS Level	-
	Horizontal Sync.	Positive / Negative	-
	Vertical Sync.	Positive / Negative	-
	Input Connector	D-Sub 15 pins, DVI-D 24 pins, Component Composite, S-Video, RS-232C(option)	-
Performance	Auto Adjust	Clock, Phase, H Position & V Position	-
	Screen Scaling	VGA/SVGA/XGA/SXGA/WXGA Full Screen Display	-
	Power Management	VESA DPMS, DVI DMPM	-
	Gamma Correction	Off, 2.2, 2.4	
	Color Adjustment	User, 3200K, 5400K, 6500K & 9300K	-
	OSD Language	English	-
Power supply	Input AC	(Worldwide)	V
Power consumption	Operation Mode	≤250 (max.)	W
	Power Saving Mode	≤15(max)	W
Physical	Dimension, (WxHxD)	1026x619x103.7 (w/o stand)	mm,
	Net Weight	33	kg
	Gross Weight	39	kg
Function	OSD key	7	key

Troubleshooting

Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

- Perform the adjustments according to page 10 “Operation The Monitor”
- Refer to the following items if you can’t find a proper item listed in the Operating the Monitor or if the problem remain.
- if the problem you have experienced isn’t described below or you can’t correct the problem, stop using the monitor and call service personnel or VarTech.

Problem	Check these things
No Display	Check the power plug insert on wall outlet..
	Check the main power switch
	If AC socked is OK, please check another set of equipment.
	Check input single, the signal may not be suitable.
Display is not in the center.	If the signal timing of the computer is within the spec.
Display is shaking.	If the signal timing of the computer is within the spec.
The remote control doesn’t work	Make sure the battery is inserted matching the + and – marks of the battery compartment.
	The battery may be exhausted..
	Use the remote control aiming at the remote control sensor.
The picture color is pale, or not clear	Check picture quality to adjust.
	If you are using YUV terminals, make sure cables are correctly connected.

Compliance

FCC Compliance Statement:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning
This is class A products. In a domestic environment this product may
Cause radio interference in which case the user may be required to take adequate measures.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE

EN 55022、EN 61000-3-2、EN-61000-3-3
EN 55024、IEC61000-4
EN 60950 [Low-Voltage Directive (73/23/EEC)]

VarTech Systems Technical Support

For technical support and repairs, please contact Vartech SystemsTechnical Support at: (800) 223-8050 or (225) 298-0300, Monday through Friday, 7:00 am to 4:30 pm CST, excluding holidays. Fax: (297) 297-2440.

VarTech Systems Limited Warranty

VarTech Systems, Inc. warrants this enclosure against defects in material or workmanship, provided the serial number appears on the product and is as originally configured by VarTech.

If failure of the product has resulted from accident, abuse, or misapplication, VarTech Systems, Inc. shall have no responsibility under this limited warranty.

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